

Contents of Volume 220, 1981

No. 1 issued on September 16, 1981

Å. Seiger, A.-C. Granholm: Thyroxin dependency of the developing locus coeruleus. Evidence from intraocular grafting experiments	1
J.M. Snyder, J.M. Johnston, C.R. Mendelson: Differentiation of type II cells of human fetal lung in vitro	17
W.W. Blessing, J.B. Furness, M. Costa, M.J. West, J.P. Chalmers: Projection of ventrolateral medullary (A1) catecholamine neurons toward nucleus tractus solitarii	27
T. Schneider, P. Semm, L. Vollrath: Ultrastructural observations on the central innervation of the guinea-pig pineal gland	41
S. Moskalewski, J. Thyberg: Reversible changes in nuclear and cell surface topography in cells exposed to collagenase and EDTA	51
R. Seitz, J. Löhler, G. Schwendemann: Ependyma and meninges of the spinal cord of the mouse. A light- and electron-microscopic study	61
M. Elger, H. Hentschel: The glomerulus of a stenohaline fresh-water teleost, <i>Carassius auratus gibelio</i> , adapted to saline water. A scanning and transmission electron-microscopic study	73
F. Nürnberger, H.-W. Korf: Oxytocin- and vasopressin- immunoreactive nerve fibers in the pineal gland of the hedgehog, <i>Erinaceus europaeus</i> L.	87
J. Bitsch: Ultrastructural modifications of the glandular epithelium of the <i>receptaculum seminis</i> in <i>Thermobia domestica</i> (Insecta: Thysanura) during the moulting period	99
B.A. Richardson: Localization of gonadotrophic hormones in the pituitary gland of the California leaf-nosed bat (<i>Macrotus californicus</i>)	115
L.J. Ream, R. Principato: Glycogen accumulation in the parathyroid gland of the rat after fluoride ingestion	125
M.C. Poole, V.B. Mahesh, A. Costoff: Morphometric analysis of the autophagic and crinophagic lysosomal systems in mammotropes throughout the estrous cycle of the rat	131
M. Whitear, E.B. Lane: Fine structure of Merkel cells in lampreys	139
H. Stebbings: Observations on cytoplasmic transport along ovarian nutritive tubes of polyphagous coleopterans	153
E. Bielek: Developmental stages and localization of peroxidatic activity in the leucocytes of three teleost species (<i>Cyprinus carpio</i> L.; <i>Tinca tinca</i> L.; <i>Salmo gairdneri</i> Richardson)	163
M.K. Shaw: The ultrastructure of synapses in the brain of <i>Gastrocotyle trachuri</i> (Monogenea, Platyhelminthes)	181
M.P. Leuschen, C.M. Moriarty, H.W. Sampson, I. Piscopo: Cytochemical analysis of intracellular calcium distribution in the anterior pituitary of the rat	191
I. Lang: Electron microscopic and histochemical investigations of the atretic oocyte of <i>Perca fluviatilis</i> L. (Teleostei)	201
Short Communications	
R.S. Piezzi, J.C. Miranda: Effect of dexamethasone on the neonatal adrenal medulla	213
M. Kaneta, K. Abe, T. Ito: Appearance of dense granules in the rough endoplasmic reticulum of the juxtaglomerular cells in mice administered with captopril	219

No. 2 issued on October 21, 1981

C.J. Clayton, T.H. McNeill, J.R. Sladek, Jr.: A comparison of neuropeptide immunocytochemistry in fluid-fixed and freeze-dried brains	223
R.D. Dey, W.A. Shannon, Jr., S.I. Said: Localization of VIP-immunoreactive nerves in airways and pulmonary vessels of dogs, cats, and human subjects	231
K. Rascher: Monosodium glutamate-induced lesions in the rat cingulate cortex	239

W. Liebrich: In vitro spermatogenesis in <i>Drosophila</i> . I. Development of isolated spermatocyte cysts from wild-type <i>D. hydei</i>	251
M.N. Bou-Resli, N.S. Al-Zaid, M.E.A. Ibrahim: Full-term and prematurely ruptured fetal membranes. An ultrastructural study	263
B.B. Rawdon, A. Andrew: An immunocytochemical survey of endocrine cells in the gastrointestinal tract of chicks at hatching	279
T.M. Weatherby: Ultrastructural study of the sinus gland of the crab, <i>Cardisoma carnifex</i>	293
P.L. Debbage, D.S. O'Dell, D.W. James, A. Connold: Affinity of chick microglia in vitro for ricin	313
C.A. Squier: The effect of stretching on formation of myofibroblasts in mouse skin	325
V.I. Steinberg, V. Rowe, I. Watanabe, J. Parr, M. Degenhardt: Morphologic development of neonatal rat pinealocytes in monolayer culture	337
B.S. Weakley, P. Webb, J.L. James: Cytochemistry of the Golgi apparatus in developing ovarian germ cells of the Syrian hamster	349
T.R. Stubbs, J.L.S. Cobb: The giant neurone system in Ophiuroids. II. The hyponeural motor tracts	373
S. Ferri, A. Sesso: Ultrastructural study of Kupffer cells in teleost liver under normal and experimental conditions	387
A. Leutz, M. Schachner: Epidermal growth factor stimulates DNA-synthesis of astrocytes in primary cerebellar cultures	393
T.G. Lima, A. Haddad: Light- and electron-microscopic radioautographic study of glycoprotein secretion in the granular duct of the submandibular gland of the male mouse	405
T. Iijima: Occurrence of uranaffin-positive synaptic vesicles in both adrenergic and non-adrenergic nerves of the rat anococcygeus muscle	427

Short Communications

E. Muzii: Intracellular polymerized haemocyanin in the branchial gland of a cephalopod	435
Al-W.I. El-Bermani, J.A. Montvilo, E.I. Bloomquist: Intracellular rodlets in a pulmonary neuroepithelial body of a rabbit	439
K. Miyata, K. Takaya: Elastic fibers associated with collagenous fibrils surrounded by reticular cells in lymph nodes of the rat as revealed by electron microscopy after orcein staining	445

No. 3 issued on October 26, 1981

B.R. Eisenberg, S. Salmons: The reorganization of subcellular structure in muscle undergoing fast-to-slow type transformation. A stereological study	449
M.K.S. Gustafsson, M.C. Wikgren: Release of neurosecretory material by protrusions of bounding membranes extending through the axolemma, in <i>Dipyllobothrium dendriticum</i> (Cestoda)	473
C.B. Basbaum, I. Ueki, L. Brezina, J.A. Nadel: Tracheal submucosal gland serous cells stimulated in vitro with adrenergic and cholinergic agonists. A morphometric study	481
P. Nève, M. Authélet, J. Golstein: Effect of aging on the morphology and function of the thyroid gland of the cream hamster. Further evidence for two different mechanisms of hormone secretion	499
S. Hisano, H. Kawano, Y. Maki, S. Daikoku: Electron microscopic study of immunoreactive LHRH perikarya with special reference to neuronal regulation	511
M. Komuro, T. Shioda: Localization of sialic acid-containing hormones in GTH cells and ACTH cells of the rat anterior pituitary	519
M.Z.M. Ibrahim, D.S. Koshayan: The mast cells of the mammalian central nervous system. VIII. Uptake of ³⁵ S and ³ H-5-hydroxytryptophan inside and outside of CNS	529
E.J. Sanders, J.E. Dickau: Morphological differentiation of an embryonic epithelium in culture	539
S.K. Dey, C.J. Hubbard: Role of histamine and cyclic nucleotides in implantation in the rabbit	549
J. Bernstein, P. Burrill, N. Kretchmer: Disaccharidase-deficient animals have normal ultrastructure of intestinal brush border membranes	555

G.J.J.M. van Eys, S.E. Wendelaar Bonga: Structural changes in the pars intermedia of the chlid teleost <i>Sarotherodon mossambicus</i> as a result of background adaptation and illumination. III. The role of the pineal organ	561
S. Bursztajn, P. Libby: Morphological changes in cultured myotubes treated with agents that interfere with lysosomal function	573
J.M. Meyer, A. Staubli, J.V. Ruch: Ruthenium red staining and tannic acid fixation of dental basement membrane	589
J.F. Dunn, W. Davison, G.M.O. Maloiy, P.W. Hochachka, M. Guppy: An ultrastructural and histochemical study of the axial musculature in the African lungfish	599
E.V. Gaffney, M.A. Grimaldi: Regulation of human amnion cell growth and morphology by sera, plasma, and growth factors	611
J.M. Lucocq, J.A. Findlay: Islet organ, blood glucose and glucose tolerance of lean and obese Mongolian gerbils. A quantitative study	623
J. Polkowska: Immunocytochemistry of luteinizing hormone releasing hormone (LHRH) and gonadotropic hormones in the sheep after anterior deafferentation of the hypothalamus	637
A. Jakubiec-Puka, D. Kulesza-Lipka, K. Krajewski: The contractile apparatus of striated muscle in the course of atrophy and regeneration. I. Myosin and actin filaments in the denervated rat soleus	651

Short Communications

E.W. Roubos, A.N. de Keijzer, P. Buma: Adenylate cyclase activity in axon terminals of ovulation-hormone producing neuroendocrine cells of <i>Lymnaea stagnalis</i> (L.)	665
K. Taira, H. Mutoh, S. Shibasaki: Freeze-fracture study on the whorls of rough endoplasmic reticulum in the exocrine pancreatic cells of the Japanese newt and African clawed toad	669

No. 4 issued on November 6, 1981

H.E. Appert, T.H. Chiu, G.C. Budd, A.J. Leonardi, J.M. Howard: ^3H -methyl scopolamine binding to dispersed pancreatic acini	673
H. Dalen: An ultrastructural study of primary cilia, abnormal cilia and ciliary knobs from the ciliated cells of the guinea-pig trachea	685
J. Ammermüller, R. Weiler: The ramification pattern of amacrine cells within the inner plexiform layer of the carp retina	699
M. Dabiké, C.S. Koenig, J.D. Vial: Distribution of intermediate filaments in amphibian oxyntic cells. Biochemical and immunological characterization	725
S.M. Morris, J.T. Albright: Superoxide dismutase, catalase, and glutathione peroxidase in the swim bladder of the physoclistous fish, <i>Opsanus tau</i> L	739
J.A. Clarke, M. de Burgh Daly: A comparative study of the distribution of carotid body type-I cells and periadventitial type-I cells in the carotid bifurcation regions of the rabbit, rat, guinea-pig and mouse	753
M. Roberge, G. Grondin, L. Larose, A.R. Beaudoin: Cytological effects of urecholine stimulation on the rat pancreas	781
D.K.J. Ekström von Lubitz: Subsurface tubular system in the outer sensory cells of the rat cochlea	787
O.V. Zaitseva, L.S. Bocharova: Sensory cells in the head skin of pond snails. Fine structure of sensory endings	797
D.C. Parish, E.M. Rodríguez, S.D. Birkett, B.T. Pickering: Effects of small doses of colchicine on the components of the hypothalamo-neurohypophysial system of the rat	809
A.J. Morgan: A morphological and electron-microprobe study of the inorganic composition of the mineralized secretory products of the calciferous gland and chloragogenous tissue of the earthworm, <i>Lumbricus terrestris</i> L. The distribution of injected strontium	829

A. Zapata, J. Leceta, M.G. Barrutia: Ultrastructure of splenic white pulp of the turtle, <i>Mauremys caspica</i>	845
C. Solsona, J.E. Esquerda, J. Marsal: Effects of ouabain and electrical stimulation on the fine structure of nerve endings in the electric organ of <i>Torpedo marmorata</i>	857
H. Gebauer†, M.A. Pabst: Autoradiographic localization of ³ H-GABA uptake in the thyroid gland of the rat	873
T.H. Moss, S.J. Lewkowicz: A comparative scanning electron-microscopical study of endoneurial collagen around normal mouse nerve fibres, nerve fibres following crush injury and nerve fibres of the dystonic mouse mutant (<i>dt/dt</i>)	881

Indexed in Current Contents

Author-Index of Volume 220, 1981

- Abe, K. 219
Albright, J.T. 739
Al-Zaid, N.S. 263
Ammermüller, J. 699
Andrew, A. 279
Appert, H.E. 673
Authelet, M. 499

Barrutia, M.G. 845
Basbaum, C.B. 481
Beaudoin, A.R. 781
Bernstein, J. 555
Bielek, E. 163
Birkett, S.D. 809
Bitsch, J. 99
Blessing, W.W. 27
Bloomquist, E.I. 439
Bocharova, L.S. 797
Bou-Resli, M.N. 263
Brezina, L. 481
Budd, G.C. 673
Buma, P. 665
Burgh Daly, de, M. 753
Burrill, P. 555
Bursztajn, S. 573

Chalmers, J.P. 27
Chiu, T.H. 673
Clarke, J.A. 753
Clayton, C.J. 223
Cobb, J.L.S. 373
Connold, A. 313
Costa, M. 27
Costoff, A. 131

Dabiké, M. 725
Daikoku, S. 511
Dalen, H. 685
Davison, W. 599
Debbage, P.L. 313
Degenhardt, M. 337
Dey, S.K. 549
Dey, R.D. 231
Dickau, J.E. 539
Dunn, J.F. 599

Eisenberg, B.R. 449
Ekström v. Lubitz, D.K.J. 787
El-Bermani, Al-W.I. 439
Elger, M. 73
Esquerda, J.E. 857
Eys, van, G.J.J.M. 561

Findlay, J.A. 623
Ferri, S. 387
Furness, J.B. 27

Gaffney, E.V. 611
Gebauer †, H. 873
Golstein, J. 499
Granholm, A.-C. 1
Grimaldi, M.A. 611
Grondin, G. 781
Guppy, M. 599
Gustafsson, M.K.S. 473

Haddad, A. 405
Hentschel, H. 73
Hisano, S. 511
Hochachka, P.W. 599
Howard, J.M. 673
Hubbard, C.J. 549

Ibrahim, M.E.A. 263
Ibrahim, M.Z.M. 529
Iijima, T. 427
Ito, T. 219

Jakubiec-Puka, A. 651
James, D.W. 313
James, J.L. 349
Johnston, J.M. 17

Kaneta, M. 219
Kawano, H. 511
Keijzer, de, A.N. 665
Koenig, C.S. 725
Komuro, M. 519
Korf, H.-W. 87
Koshayan, D.S. 529
Krajewski, K. 651
Kretschmer, N. 555
Kulesza-Lipka, D. 651

Lane, E.B. 139
Lang, I. 201
Larose, L. 781
Leceta, J. 845
Leonardi, A.J. 673
Leuschen, M.P. 191
Leutz, A. 393
Lewkowicz, S.J. 881
Libby, P. 573
Liebrich, W. 251
Lima, T.G. 405
Löhler, J. 61
Lucocq, J.M. 623

Mahesh, V.B. 131
Maki, Y. 511
Maloiy, G.M.O. 599
Marsal, J. 857

McNeill, T.H. 223
Mendelson, C.R. 17
Meyer, J.M. 589
Miranda, J.C. 213
Miyata, K. 445
Montvilo, J.A. 439
Morgan, A.J. 829
Moriarty, C.M. 191
Morris, S.M. 739
Moskalewski, S. 51
Moss, T.H. 881
Mutoh, H. 669
Muzii, E. 435

Nadel, J.A. 481
Nève, P. 499
Nürnberg, F. 87

O'Dell, D.S. 313

Pabst, M.A. 873
Parish, D.C. 809
Parr, J. 337
Pickering, B.T. 809
Piezzi, R.S. 213
Piscopo, I. 191
Polkowska, J. 637
Poole, M.C. 131
Principato, R. 125

Rascher, K. 239
Rawdon, B.B. 279
Ream, L.J. 125
Richardson, B.A. 115
Roberge, M. 781
Rodríguez, E.M. 809
Roubos, E.W. 665
Rowe, V. 337
Ruch, J.V. 589

Said, S.I. 231
Salmons, S. 449
Sampson, H.W. 191
Sanders, E.J. 539
Schachner, M. 393
Schneider, T. 41
Schwendemann, G. 61
Seiger, A. 1
Seitz, R. 61
Semm, P. 41
Sesso, A. 387
Shannon Jr., W.A. 231
Shaw, M.K. 181
Sheridan, P.J. 773
Shibasaki, S. 669

Shioda, T. 519
Sladek Jr., J.R. 223
Snyder, J.M. 17
Solsona, C. 857
Squier, C.A. 325
Staubli, A. 589
Stebbins, H. 153
Steinberg, V.I. 337
Stubbs, T.R. 373

Taira, K. 669
Takaya, K. 445

Thyberg, J. 51

Ueki, I. 481

Vial, J.D. 725
Villareal, C. 773
Vollrath, L. 41

Watanabe, I. 337
Weaker, F.J. 773

Weakley, B.S. 349
Weatherby, T.M. 293
Webb, P. 349
Weiler, R. 699
Wendelaar Bonga, S.E. 561
West, M.J. 27
Whitear, M. 139
Wikgren, M.C. 473

Zaitseva, O.V. 797
Zapata, A. 845

